Cisco Connected Safety and Security UCS Platform Series

The Cisco Connected Safety and Security (CSS) Unified Computing System™ (UCS®) Platform Series offers you performance and density for deploying and managing Cisco® Video Surveillance Manager. It comprises a suite of two server models and a wide array of features in a single, easy-to-use, and easy-to-deploy configuration.

- **CSS UCS C220** is an enterprise-class server in a one-rack unit (1-RU) form factor with Intel Xeon E5-2600 series processor family CPUs that deliver significant performance and efficiency. In addition it supports up to four 3.5-inch drives for added density in a compact 1RU package.
- **CSS UCS C240** is an enterprise-class server in a two-rack unit (2-RU) form factor with dual Intel Xeon E5-2600 series processor family CPUs that deliver significant performance and efficiency. In addition, it supports up to twelve 3.5-inch drives for storage expandability and performance.

Figures 1 and 2 show the CSS UCS C220 and CSS UCS C240, respectively. Tables 1 and 2 address the software application available on each server.

Figure 1. Cisco Connected Safety and Security UCS C220

Table 1. Cisco Connected Safety and Security UCS C220 Software Application

Software Application	Options

Video Surveillance Manager	• Video Surveillance Manager version 7.2
	• Integrated Storage Controller Unit (SCU) for RAID
	• Drive and RAID Configurations
	  ◦ 2 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 1
	  ◦ 4 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 5
	• 1 x CPS-PSU-650W Redundant Power Supply (optional)
	Supports the following option card:
	• 1 × CPS-AEPCI05—Fiber Channel card

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Figure 2. Cisco Connected Safety and Security UCS C240

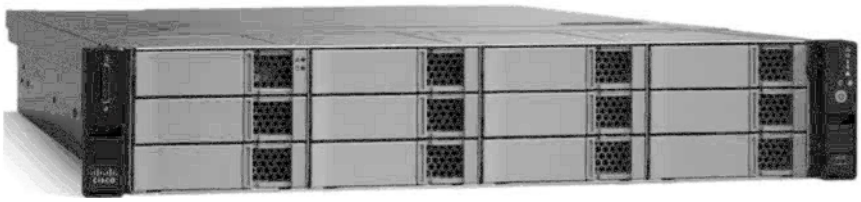

Table 2. Cisco Connected Safety and Security UCS C240 Software Application

Software Application	Options

Video Surveillance Manager	• Video Surveillance Manager version 7.2
	• LSI 9271CV-8i RAID controller PCIe card
	• Drive and RAID Configurations
	  ◦ 2 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 1
	  ◦ 6 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 5
	  ◦ 6 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 6
	  ◦ 12 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 5
	  ◦ 12 x CPS-HDD1TI2F212 or CPS-HDD2TI2F213 or CPS-HDD3TI2F214 in RAID 6
	• 2 x CPS-PSU-650W Power Supply
	Supports the following option card:
	• 1 × CPS-AEPCI05—Fiber Channel card

Table 3. Cisco Video Surveillance 6050 IP Camera Video Stream Support for 4:3 Aspect Ratios

Feature	Benefit
Intel Xeon processor E5-2600 product family	• Automated energy efficiency reduces energy costs by automatically putting the processor and memory in the lowest available power state while still delivering the performance required
Integrated quad-port Gigabit Ethernet (C240) **Integrated dual-port Gigabit Ethernet (C220)**	• Outstanding network I/O performance and increased network efficiency and flexibility
High capacity, flexible internal storage	• 7200-RPM SAS drives for high capacity and performance • Up to 4 SAS drives on C220 and up to 12 SAS drives on C240
RAID 1, 5, 6	• Various RAID configuration options for data protection
Cisco UCS C-Series Integrated Management Controller (CIMC)	• Web user interface for server management; remote keyboard, video, and mouse (KVM) • Intelligent Platform Management Interface (IPMI) 2.0 support for out-of-band management through third-party enterprise management systems
Redundant fans and power supplies	• Dual-redundant fans and power supplies for enterprise-class reliability and uptime • C240 includes redundant power supply; C220 redundant power supply option
Tool-free access	• Enhanced serviceability through tool-free access to all serviceable items
Health monitoring	• Health status monitoring from Video Surveillance Operations Manager

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Connectors

Table 4 describes the connectivity and connectors of the Cisco Connected Safety and Security UCS Platform Series.

Table 4. Cisco Connected Safety and Security UCS Platform I/O Connections

Item	Specification
USB 2.0	2 ports
10/100/1000M Ethernet	2 ports on C220 and 4 ports on C240 1 port for management
Serial (RJ-45)	1 port
Video ports	1 VGA video port
KVM	1 KVM console connector (supplies 2 USB, 1 VGA, 1 serial connector)
Fibre Channel	2 ports

Specifications

Tables 5 and 6 provide specifications for the Cisco Connected Safety and Security UCS Platform Series.

Table 5. CSS UCS C220 Technical Specifications

Item	Specification
Housing	1-RU, 4 × SAS front-loading drive bays
Motherboard	Intel E5-2609 2.4 GHz Xeon 4-core CPU, 8 GB DDR3 RAM
RAID Controller	Embedded RAID 1/5 4 ports SAS/SATA
LEDs	Power, hard-drive activity, network activity, system overheat/fan fail
Gross weight	37 lbs. base system with 4 HDD hard-disk drives and 1 adapter
Dimensions	1.7 x 16.9 x 28.5 in. (4.32 x 43 x 72.4 cm)
Power supply	1 × 650W power supply
Redundant power supply	1 × 650W redundant power supply (optional)
Power requirements (4 HDD with RAID, 1 Adapter)	• Max Watts: 178 • 90 % Load Watts: 172 • Idle Watts: 119
Operating temperature	32 to 104℉ (0 to 40℃) (operating, sea level, no fan fail, no CPU throttling, turbo mode)
Non-operating temperature	-40 to 158℉ (-40 to 70℃)
Operating humidity	10 to 90% noncondensing
Non-operating humidity	5 to 93% noncondensing
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1℃ per 300m)
Non-operating altitude	0 to 40,000 ft (12,000m)
Cooling BTU/hr	587 BTU/hour
On-board storage option	1 TB, 2 TB, or 3 TB SAS hard-disk drive in 2 or 4 drive increments
On-board storage capacity	• 2 x 1 TB with RAID 1 ~ .9 TB storage available • 2 x 2 TB with RAID 1 ~ 1.8 TB storage available • 2 x 3 TB with RAID 1 ~ 2.7 TB storage available • 4 x 1 TB with RAID 5 ~ 2.7 TB storage available • 4 x 2 TB with RAID 5 ~ 5.4 TB storage available • 4 x 3 TB with RAID 5 ~ 8.1 TB storage available
Number of on-board storage repositories	• 1 for RAID-5 configuration for video surveillance application

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Table 6. CSS UCS C240 Technical Specifications

Item	Specification
Housing	2-RU, 12 × SAS front-loading drive bays
Motherboard	Dual Intel E5-2620 2.0 GHz Xeon 6-core CPU, dual 8 GB DDR3 RAM
RAID Controller	LSI MegaRAID SAS 9271CV-8i RAID controller card
LEDs	Power, hard drive activity, network activity, system overheat/fan fail
Gross weight	60 lbs. base system with 12 HDD hard-disk drives and 2 adapters
Dimensions	3.4 x 17.5 x 28.0 in. (8.7 x 44.5 x 71.2 cm)
Power supply	2 × 650W power supply
Power requirements (12 HDD and 2 Adapters)	• Max Watts: 390 • 90 % Load Watts: 373 • Idle Watts: 226
Operating temperature	41 to 104°F (5 to 40°C) reduce the maximum tempera ture by 1℃ per every 305 m of altitude above sea level
Non-operating temperature	-40 to 158℉ (-40 to 70℃)
Operating humidity	10 to 90% noncondensing
Non-operating humidity	5 to 93% noncondensing
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1℃ per 300m)
Non-operating altitude	40,000 ft (12,000m)
Cooling BTU/hr	1273 BTU/hour
On-board storage option	1 TB, 2 TB, or 3 TB SAS hard-disk drive in 2, 6, or 12 drive increments
On-board storage capacity	• 2 x 1 TB with RAID 1 ~ .9 TB storage available • 2 x 2 TB with RAID 1 ~ 1.8 TB storage available • 2 x 3 TB with RAID 1 ~ 2.7 TB storage available • 6 x 1 TB with RAID 5 ~ 2.7 TB storage available • 6 x 2 TB with RAID 5 ~ 5.4 TB storage available • 6 x 3 TB with RAID 5 ~ 8.1 TB storage available • 12 x 1 TB with RAID 5 ~ 9.9 TB storage available • 12 x 2 TB with RAID 5 ~ 19.8 TB storage available • 12 x 3 TB with RAID 5 ~ 29.7 TB storage available • 6 x 1 TB with RAID 6 ~ 3.6 TB storage available • 6 x 2 TB with RAID 6 ~ 7.2 TB storage available • 6 x 3 TB with RAID 6 ~ 10.8 TB storage available • 12 x 1 TB with RAID 6 ~ 9 TB storage available • 12 x 2 TB with RAID 6 ~ 18 TB storage available • 12 x 3 TB with RAID 6 ~ 27 TB storage available
Number of on-board storage repositories	1 for video surveillance application

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Certifications

Please visit the Product Approval Status (PAS) tool for country approval status: http://tools.cisco.com/cse/prdapp

Ordering Information

To place an order, visit the Cisco Ordering Homepage. To download firmware, visit the Cisco Software Center. Table 7 provides ordering information for the Cisco Connected Safety and Security UCS Platform Series.

Table 7. Cisco Connected Safety and Security UCS Platform Series Ordering Information

Item	Specification
CPS-UCS-1RU-K9	Cisco Connected Safety and Security UCS C220 1-RU chassis with motherboard, one 2.4 GHz 4 core CPU, one 8GB memory dimm, and one 650W power supply (no drives and no option cards)
CPS-UCS-2RU-K9	Cisco Connected Safety and Security UCS C240 2-RU chassis with motherboard, dual 2.0 GHz 6 core CPU, dual 8GB memory dimm, and dual 650W power supply (no drives and no option cards)
CPS-HDD1TI2F212	1 TB SAS 7.2K RPM 3.5 inch HDD
CPS-HDD2TI2F213	2 TB SAS 7.2K RPM 3.5 inch HDD
CPS-HDD3TI2F214	3 TB SAS 7.2K RPM 3.5 inch HDD
CPS-PSU-650W	650W power supply for CPS UCS servers
CPS-AECI05	Emulex Lpe 12002 Dual Port 8Gb FC HBA

Availability

Cisco Connected Safety and Security UCS Platforms are available through Cisco Authorized Technology Provider Partners.

Service and Support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Connected Safety and Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

- Reduce deployment costs by identifying the features that will best meet your business requirements
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design
- Support smooth implementation through effective planning and expert installation, configuration, and integration
- Increase operational efficiency and extend the value of your investment with superior technical support

For more information about Cisco services, visit http://www.cisco.com/go/services.

For More Information

For more information about the Cisco Connected Safety and Security UCS Platform Series, contact your local account representative or visit http://www.cisco.com/go/physec.

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